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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/746,620	12/21/2000	Thierry De Lumley-woodyear	12008.21USC1	2162
23552 7	590 02/28/2002			
MERCHANT & GOULD PC			EXAMINER	
P.O. BOX 2903 MINNEAPOLIS, MN 55402-0903			FORMAN,	BETTY J
			ART UNIT	PAPER NUMBER
			1634	*
			DATE MAILED: 02/28/2002	<i>((</i>

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No. Applicant(s)					
	09/746,620	DE LUMLEY-WOODYEAR ET AL.				
Office Action Summary	Examiner	Art Unit				
	BJ Forman	1634				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period vortice. - Failure to reply within the set or extended period for reply will, by statute. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a within the statutory minimum of thir will apply and will expire SIX (6) MON, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status	Name and 19000					
1) Responsive to communication(s) filed on 21 [
, ————————————————————————————————————	is action is non-final.	Atomo munos solutions on to the moneyite in				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-52</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-52</u> are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accep	oted or b) objected to by t	the Examiner.				
Applicant may not request that any objection to the						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received.						
15)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)				

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Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-11 and 33-48, drawn to nucleic acid sensors and kits comprising the nucleic acid sensor, classified in class 435, subclass 285.2.
 - II. Claims 12-32, drawn to method for detecting target nucleic acid, classified in class 435, subclass 6.
 - III. Claims 49-52, drawn to methods for making nucleic acid sensors, classified in class 435, subclass 287.9.
- 2. The inventions are distinct, each from the other because of the following reasons:
- a. Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product as claimed can be used in a materially different process of using that product. The nucleic acid sensors of Invention I can be used to produce nucleic acids complementary to the sensor nucleic acids to thereby produce complementary nucleic acids, nucleic acid sensors and/or nucleic acid sensor arrays.

b. Inventions I and III are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process. The nucleic acid sensors of Invention I can be made by spotting the redox polymer and enzyme using known spotting techniques (e.g. ink jet, capillary and pipetting) and by non-specific

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coupling of the nucleic acid onto a modified surface using known techniques (e.g. flow cell, pin deposition, ink jet deposition, capillary deposition and by pipetting).

- c. Inventions II and III are independent and distinct methods. Inventions are independent and distinct if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are not disclosed as capable of use together and they have different modes of operation and different functions. The method of Invention I operates by contacting an array of nucleic acids with target nucleic acids, generating a current resulting from oxidation or reduction on the array and correlating the current with hybridization and the method functions to detect hybridized target nucleic acids. The method of Invention III operates by depositing an electrode on a substrate, coating the electrode and coupling a nucleic acid to the electrode and the method functions to provide a substrate having electrode-coupled nucleic acids.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BJ Forman whose telephone number is (703) 306-5878. The examiner can normally be reached on 6:30 TO 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Jones can be reached on (703) 308-1152. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-4242 for regular communications and (703) 308-8724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

BJ Forman, Ph.D. Patent Examiner Art Unit: 1634

February 27, 2002